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L 38716-66 EWT(d)/EWT(1)/ENP(1) LJP(c) BC

ACC NR: AR6014198

SOURCE CODE: UR/0271/65/000/011/B027/B028

AUTHOR: Belov, A. F.; Kurochkin, S. S.; Sterligov, D. A.

TITLE: Matrix control devices for multichannel analyzers *15* *56*
12

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika, Abs. 11B228

REF SOURCE: Tr. Soyuzn. n.-i. in-ta priborostr., vyp. 1, 1964, 131-142

TOPIC TAGS: multichannel analyzer, matrix control, digital computer, computer component

ABSTRACT: Linear, decoder, and matrix control devices for multichannel measuring systems are analyzed. It is inferred that the matrix type (when the number of command cycles exceeds 16) is expedient for use in new analyzers. Two control devices, BUU-16⁶ and BUU-17⁶ are detailed, their functional diagrams are presented as well as their basic data. Operation of these units is examined: a shaping amplifier with or without an OR-gate; address-current generator with a program switch. Tests and operating-experience results are reported. The above control device was physically implemented in AI-1024-1⁶, AI-1024-2⁶ and AI-2048⁶ analyzers. Nine figures. Bibliography of 4 titles. N. P. [Translation of abstract] *10*

SUB CODE: 09

Card 1/1 *SK*

UDC: 681.142.34

L 45811-66 EWT(d)/EWT(1)/EWP(1) IJP(c) BB/GG
ACC NR: AR6023256

SOURCE CODE: UR/0058/66/000/003/A046/A047

AUTHOR: Kurochkin, S. S.; Belov, A. F.; Belous, A. L.; Krashenninnikov, I. S.; Salichko, V. N.; Rekhin, Ye. I.; Fateyev, V. A. 67

TITLE: A kit of units and blocks for multichannel and multidimensional analyzers 13

SOURCE: Ref zh. Fizika, Abs. 3A408

REF SOURCE: Tr. Soyuzn. n.-i. in-ta priborostr., vyp. 1, 1964, 63-78

TOPIC TAGS: multichannel analyzer, pulse height analyzer, computer component, computer coding/ BAP amplitude code converter, BVP time code converter, BDP coordinate code converter, BZU memory unit, BAU arithmetic unit, BUU control unit, BZ printer, BZ perforator, BZ tape storage, BO oscilloscope block, BUO oscilloscope control

ABSTRACT: The authors consider the characteristics of a kit of units and blocks for multichannel and multidimensional analyzers. All the units of the kit are matched both with respect to the input and output resistances, accuracy, range of measured quantities, and operating speed. The parameters of the blocks are guaranteed at a temperature $20 \pm 15^\circ\text{C}$ and a relative humidity $70 \pm 10\%$. The blocks are designed for supply voltages $\pm 6, 12, 27$, and 100V , with stability $\pm 0.5\%$. The kit includes the following: input units, circuits for the accumulation and processing of information, output devices, and power supplies. The parameters of the following units are presented: 1) BAP-5 and BAP-7 pulse amplitude into code converters; 2) BVP-5 time intervals into digital code converters; 3) devices BDP-7 and BDP-8 for the transformation of the coordinates of pickups, targets, samples, etc. into a digital code; 4) BZU-15, 26

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BZU-16, BZU-17, BZU-18, BZU-19, BZU-20, BZU-22, and BZU-23 analyzer memory units;
5) BAU-16 and BAU-17 arithmetic units; 6) BUU-3, BUU-16, and BUU-17 analyzer control
blocks; 7) BZ-15 and BZ-22 numbers printers; 8) BZ-17 and BZ-18 perforators; 9) BZ-20
magnetic tape storage; 10) BO-5 oscillograph block, BUO-2-5 oscillograph control
block, and a few other devices. A table is presented, in which data on the applica-
tions of the listed blocks are summarized. Yu. Semenov. [Translation of abstract]

SUB CODE: 09

Card 2/2

L 37162-66 EWT(d)/EWT(m)/EWP(t)/ETI/EWP(1) LJP(c) JD/GD/JH

ACC NR: AT6016428

(A)

SOURCE CODE: UR/0000/65/000/000/0188/0196

AUTHOR: Belov, A. F.

ORG: none

TITLE: Perspectives on the development and uses of aluminum alloys

SOURCE: AN SSSR, Institut metallurgii. Metallovedeniye legkikh splavov (Metallography of light alloys). Moscow, Izd-vo Nauka, 1965, 188-196

TOPIC TAGS: aluminum, aluminum alloy, economics, economic program

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ABSTRACT: A general survey of the present status and future development of the aluminum alloys industry is presented. Frequent reference is made to the U. S. aluminum industry. For example, it is pointed out that whereas prices for copper and cast iron increased by 305 and 310% respectively over the period from 1938 to 1964, the increase in the price of aluminum over the same period was only 112%. It is also mentioned that the U. S. defense industry used a smaller fraction of the total aluminum produced in the country in 1963 (7.3%) than in 1950 (34.5%). The author attributes the price stability and changing trends in the uses of aluminum in the USA to new production techniques and new areas of application, particularly in the construction industry. The author expresses hope that the huge power installation in the Far East of Russia, coupled with new manufacturing processes, will further

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L 37162-66

ACC NR: AT6016428

decrease the price of aluminum⁴ production and make the metal and its alloys more widely available in all branches of the nation's industry. Orig. art. has: 2 tables.

SUB CODE: 11, 05/ SUBM DATE: 16Sep65

Card 2/2 af

DRITS, M.Ye., doktor tekhn. nauk, otv. red.; BOGHWAR, A.A., akademik, red.; BELOV, A.F., doktor tekhn. nauk, red.; DOBATEIN, V.I., doktor tekhn. nauk, red.; MAL'TSEV, M.V., doktor tekhn. nauk, red.; FRIDLYANDER, I.N., doktor tekhn. nauk, red.; SVIDERSKAYA, Z.A., kand. tekhn. nauk, red.; YELAGIN, V.I., kand. tekhn. nauk, red.; BARBANEL', R.I., kand. tekhn. nauk, red.; SHAROV, M.V., kand. tekhn. nauk, red.; KADANER, E.S., kand. tekhn. nauk, red.; TROKHOVA, V.F., red.; CHERNOV, A.N., red.

[Metallography of light alloys] Metallovedenie legkikh splavov. Moskva, Nauka, 1965. 226 p. (MIRA 18:10)

1. Moscow. Institut metallurgii.

L 08329-67

ACC NR: AR6033769

SOURCE CODE: UR/0058/66/000/007/A029/A029

AUTHOR: Kurochkin, S. S.; Belous, A. L.; Belov, A. F.; Krashennnikov, I. S.; Rekhin, Ye. I.; Salichko, V. N.

TITLE: Multichannel and multidimensional analyzers AI-1024, AI-2048, and AI-4096

SOURCE: Ref. zh. Fizika, Abs. 7A257

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REF SOURCE: Tr. 6-y Nauchno-tekhn. konferentsii po yadern. radioelektron. T. 3. Ch. 1 M., Atomizdat, 1965, 171-181

TOPIC TAGS: pulse analyzer, computer, multidimensional analyzer, AI-024 pulse analyzer, AI-2048 pulse analyzer, AI-4096 pulse analyzer, AI-1024-3 analyzer, AI-1024-2 analyzer, AI-2048-3 analyzer, AI-2048-2 analyzer, AI-4096-2 analyzer, AI-4096-3 analyzer

ABSTRACT: A study is made of AI-1024, AI-2048, and AI-4096 pulse analyzers, each of which features modifications. The AI-1024-3, AI-2048-3, and AI-4096-3 analyzers differ from AI-1024-2, AI-2048-2, and AI-4096-2 analyzers in that they have branching control devices and arithmetic devices and permit a more complex processing of information. The analyzers are based upon an active memory core made with ferrite tori with a 16 μ sec registration cycle, an arithmetic device, a control device on

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ferrite-type cores, a power supply unit ensuring the standard stabilized voltages ± 6 , ± 12 , and ± 27 v. Counters of measured processes are used as input units. Analog as well as digital information output is possible. The main characteristics of the analyzers are presented in the form of tables. [Translation of abstract]

SUB CODE: 09

Cord 2/2 nst

ACC NR: AR7004327

SOURCE CODE: UR/0271/66/000/011/BO43/BO43

AUTHOR: Kurochkin, S. S.; Belov, A. F.; Mityugov, A. G.; Salichko, V. N.

TITLE: Multidimensional analyzers with intermediate magnetic-tape information storage

SOURCE: Ref. zh. Avtomat. telemekh. i vychisl. tekhn., Abs. 11B335

REF SOURCE: Tr. 6-y Nauchno-tekhn. konferentsii po yadern. radioelektron. T.3. Ch. 2. M., Atomizdat, 1965, 66-88

TOPIC TAGS: ^{multichannel} ~~pulse-height~~ analyzer, ~~nuclear research~~ magnetic tape

ABSTRACT: The analyzers in question are economical and reliable with several tens of thousands channels and they permit adapting the results to experimental conditions. The relations characterizing such analyzers and useful for their operation and design are presented. Several variants of analyzing systems (50472-1 -- 50472-5) designed with standard units are considered, as well as measuring-and-storing devices intended for continuous incoming pulses and for short pulse packets. Seven figures, one table. Bibliography of 8 titles. A. S. [Translation of abstract]

SUB CODE: 09, 18

Card 1/1

UDC: 681.142.343

ACC NR: AR7004310

SOURCE CODE: UR/0271/66/000/011/A048/A048

AUTHOR: Kurochkin, S. S.; Belov, A. F.

TITLE: Spectrum identification with AI-1024-3, AI-2048-3, AI-4096-3, and AI-2048-1 analyzers

SOURCE: Ref. zh. Avtomat. telemekh. i vychisl. tekhn., Abs. 11A375

REF SOURCE: Tr. 6-y Nauchno-tekhn. konferentsii po yadern. radioelektron. T. 3, Ch. 2. M., Atomizdat, 1965, 98-119

TOPIC TAGS: pulse height analyzer, spectrum analysis/*AI-1024-3 analyzer, AI-2048-3 analyzer, AI-4096-3 analyzer, AI-2048-1*

ABSTRACT: Various methods are considered of identification of complex spectra which can be materialized by means of pulse-height analyzers AI-1024-3, AI-2048-3, AI-4096-3, and AI-2048-1. The identification methods are reduced to a comparison of the test spectrum with several standard spectra. The most widely used method is normalization, e. i., a sequential subtraction of standard spectra from the test one. The second group of methods are matrix methods and their modification -- a method of counting efficiencies. These methods are less widely used, apparently, because of the complicated problem arising from incorrect equations involved. Recently, regulating methods were suggested for this class of problems. One table. Bibliography of 12 titles. B. U. [Translation of abstract]

SUB CODE: 18, 20

Card 1/1

UDC: 658.562:533

ACC NR: AR7004311

SOURCE CODE: UR/0271/66/000/011/A048/A048

AUTHOR: Kurochkin, S. S.; Belov, A. F.; Okunev, V. V.

TITLE: Standard programs for normalization of spectra for AI-1024, AI-2048, AI-4096 analyzers

SOURCE: Ref. zh. Avtomat. telemekh. i vychisl. tekhn., Abs. 11A376

REF SOURCE: Tr. 6-y Nauchno-tekhn. konferentsii po yadern. radioelektron. T. 3. Ch. 2. M., Atomizdat, 1965, 154-161

TOPIC TAGS: pulse height analyzer, spectrum analysis /*AI-1024 analyzer, AI-2048 analyzer, AI-4096 analyzer*

ABSTRACT: Quantitative interpretation of the results of statistical spectrum measurements depends on many factors connected with variety of measurement conditions. To allow for these conditions, the spectra are normalized, e. i., changed to a form in which they become comparable. Simplest, widely used methods of spectrum normalization are considered, and the programs of their utilization with AI-1024, AI-2048, and AI-4096 analyzers are examined. The same normalization methods can be used also with AI-16000. The number-of-readings spectrum normalization can be reduced to multiplication or division of the spectrum in each analyzer channel by a constant factor. The multiplication or division factors are set on the control desk. The multiplication and division programs are conventional. The energy-axis is associated with instability of the spectrometric channel. The spectrum-normalization programs can be used by the analyzers as self-contained programs of spectrum pre-processing or they may be used as subroutines in more complex programs of spectrum processing. Five figures. Bibliography of 6 titles. B. U. [Translation of abstract]

Card 1/1 SUB CODE: 18, 20

UDC:658.562:533

ACC NR: AR7004313

SOURCE CODE: UR/0271/66/000/011/A048/A049

AUTHOR: Kurochkin, S. S.; Belous, A. L.; Belov, A. F.; Krashennnikov, I. S.;
Rekhin, Ye. I.; Salichko, V. N.

TITLE: Principal operating modes of multianalyzers AI-1024, AI-2048, and AI-4096

SOURCE: Ref. zh. Avtomat. telemekh. i vychisl. tekhn., Abs. 11A378

REF SOURCE: Tr. 6-y Nauchno-tekhn. konferentsii po yadern. radioelektron. T. 3.
Ch. 2. M., Atomizdat, 1965, 181-208

TOPIC TAGS: pulse height analyzer, ^{digital analog counter, computer input unit} AI-1024 analyzer, AI-2048 analyzer, AI-4096
analyzer

ABSTRACT: These analyzers permit several types of measurement, yield information either in analog or in digital form, can process information, and perform simplest checking operations. They permit carrying out rapid time and two-dimensional analyses of the following forms: pulse-height and time analysis in consecutive time intervals, measurement of flux intensity at several points in consecutive time intervals, pulse-height-height analysis, pulse-height-time analysis, time-time analysis, pulse-height analysis of several independent random processes by means of several sensors, time analysis by means of several sensors. The connections required by each type of measurement are made automatically when the suitable input unit is set in. The

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ACC NR: AR7004313

analyzer can be started either manually or by an external signal. The analyzer can be stopped either manually, or by an external signal, or by a specified-exposure signal. The exposure can be specified: either by a "live" time, or by a specified number of pulses, or by a specified time lapse. The analog-type information is fed to an oscilloscope and a recorder. A number code taken from a given channel is fed to a register and further (in a potential digital form) is transferred to the oscilloscope control unit where a digital-to-analog converter is located. When the information is fed to the recorder, an integrating unit is also used. The information is fed to the oscilloscope and recorder according to a conventional program. The information is delivered at a rate of 5 or 20 lines per second. After one cycle of information has been completed, the next pulse starts a program of converting the number in the next channel. Check routines are used for checking the normal functioning of the analyzer. Eleven figures. Bibliography of 4 titles. B. U.

[Translation of abstract]

SUB CODE: ¹⁸09

Card 2/2

ACC NR: AF7001437 (A, N) SOURCE CODE: UR/0413/66/000/021/0158/0158

INVENTORS: Obolonskiy, A. S.; Belov, A. F.; Kurochkin, S. S.

Orig: none

TITLE: Device for producing an axonometric image of the spectrum. Class 42, No. 188148 [announced by Union Scientific Research Institute for Instrument Manufacture (Soyuznyy nauchno-issledovatel'skiy institut priborostroyeniya)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 21, 1966, 158

TOPIC TAGS: spectrum, transistorized circuit, SPECTRUM ANALYZER

ABSTRACT: This Author Certificate presents a device for producing an axonometric image of the spectrum, which contains code-to-voltage converters, amplifiers, and a cathode ray tube. To simplify the device, the amplifiers are connected at the output of the code-to-voltage converters. A common summing transistor in each amplifier is connected directly to a first current-setting transistor and (through a multiposition switch) to a second current-setting transistor. The base of the summing transistor in the amplifiers is connected to a reference voltage source. Limiting resistors are connected in the emitter circuits of the first and second current-setting transistors. To increase the image visualization, the emitter of the first summing transistor is connected through a switch to the collector of a transistor whose emitter

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UDC: 681.142.07

ACC NR: AP7001437

is connected to a resistor. Its base is connected to the base of the first current-setting transistor and to the output of the voltage source for varying the third coordinate.

SUB CODE: 09, 20/ SUBM DATE: 27Sep65

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TITOI, L.G.

Increase of student efficiency in studying - 45-50
Vest. v. 1, no. 1, 1952

BELOV,

A. I.

BALASHEV, N.N.; BELOV, Aleksandr Ivanovich

[Corn and sorghum] Kukuza i sorgo. Tashkent, Gos. izd-vo
Uzbekskoi SSR, 1955. 50 p. (MLRA 10:5)
(Corn (Maize)) (Sorghum)

BELOV, A.I.

PS-1200 centrifugal. Sakh.prem.30 no.2:60-61 P '56. (MIRA 9:7)

1.Sakharnyy zaved imeni Stalina.
(Centrifuges)

BELOV, A.I.

BELOV, A.I.

Experience in the operation of centrifuges. Sakh.prom.31
no.9:30-31 S '57. (MIRA 10:12)

1. Sakharnyy zavod imeni Stalina.
(Sugar machinery) (Centrifuges)

DAO TKHE TUAN; BELOV, A.I., kand. sel'khoz. nauk, dots., red.; TIKHONOVA, I.,
red.; SALAKHUTDINOVA, A., tekhn. red.

[Origin, systematics, and ecology of rice] Proisakhoshdenie, siste-
matika i ekologiya risa. Pod red. A.I.Belova. Tashkent, Gos. izd-
vo Uzbekskoi SSR, 1960. 82 p. (MIRA 14:8)
(Rice)

BELOV, A. I.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr. 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
<u>Belov, A. I.</u>	"Cotton Growing" Textbook	Ministry of Agriculture Uzbek SSR

80: W-30604, 7 July 1954

BELOV, A.I., inzhener; CHURIN, V.A., inzhener.

Device for removing the boring bit from the rod. Gor.zhur. no.6:
63 Je '56. (MLRA 9:8)

(Rock drills)

BELOV, A.I.; IVANOV, K.I.; KLOCHKO, N.A.; SIDOROV, S.P.; USHKOV, N.N.;
YARMAK, M.F.

Ways of improving bits for BA-100 air percussion drilling rigs.
Vzryv. delo no.46/3:232-238 '61. (MIRA 15:1)
(Boring machinery)

BELOV, A.I., inzh.

Four-spindle boring and mortising machine with automatic feed. Der.
prom. 10 no.1:23-25 Ja '61. (MIA 14:2)

1. Moskovskaya mebel'naya fabrika No.7.
(Woodworking machinery)

BELOW, A.J., Inzh.: ZHABOEN, N.Ye., Inzh.

Protection of engines powering a variable-pitch propeller from
torque-induced overload. Suiostroenie 20 no.22421-23 D '64.
(MIRA 18:6)

SOKOLOV, N.I.; ANDRIANOVA, K.I., red.; BELOV, A.I., red.; DMITRIYEV, B.V., red.; LOZA, G.M., red.; UDOVENKO, Ye.Ya., red.; TSYPKIN, G.I., red.

[Problems in the economy and organization of production on state farms in Kazakhstan] Voprosy ekonomiki i organizatsii sel'skokhoziaistvennogo proizvodstva v sovkhosakh Kazakhstana. Alma-Ata, 1958. 200 p. (MIRA 12:2)

1. Kazakh S.S.R. Upravleniye sel'skokhozyaystvennoy nauki i propagandy. 2. Nachal'nik planovo-ekonomicheskogo upravleniya Ministerstva sel'skogo khozyaystva Kazakhskoy SSR (for Sokolov).
3. Direktor Kazakhskogo nauchno-issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva (for Belov). (Kazakhstan--State farms)

CHURIN, Kh.D., kand. sel'khoz. nauk, dots.; VASIL'YEV, B.M., dots.;
BELOV, A.I., kand. ekon. nauk; ASHIRYAYEV, Sh.V., dots.;
TSYPKIN, G.I., kand. sel'khoz. nauk; KAPLINA, G.T., dots.;
ANDRONOV, I.G., dots.; VASIL'YEV, V.I.; KONDION, A.K.;
MAKAROV, A.P., nauchnyy sotr.; ZHIZNEVSKIY, F.V., red.;
MOSIYASH, S.P., red.; KRINITSKIY, V.A., red.; NAGIBIN, P.,
tekhn. red.

[Economics of Kazakhstan agriculture] Ekonomika sel'skogo kho-
ziaistva Kazakhstana. Alma-Ata, Kazsel'khozgiz, 1962. 325 p.
(Kazakhstan--Agriculture--Economic aspects) (MIRA 16:3)

BELOV, Aleksandr Ivanovich; TIMOFEYEV, P.G., kand. ekon. nauk,
otv. red.; YERMOLAYEV, L.A., kand. fiz.-matem. nauk,
otv. red.; KOROLEVA, N.N., red.

[Mathematical and economic calculations in agriculture]
Matematiko-ekonomicheskie raschety v sel'skom kho-
ziaistve. Alma-Ata, Nauka, 1965. 201 p. (MIRA 18:7)

SALIMZHANOV, E.S.; BELOV, A.M.; PELEVIN, L.A.; ROSTE, Z.A.; GAZIZOV, Z.S.;
BAYMUKHAMEDOV, K.S.; VALEYEV, F.V.; RUSSKIKH, V.N.

Maximum overall petroleum yield of a flooded well. Izv.vys.ucheb.
zav.; nef't' i gaz 5 no.12:39-44 '62. (MIRA 17:4)

1. Moskovskiy institut nef'tekhimicheskoy i gazovoy promyshlennosti
imeni akademika Gubkina.

SALIMZHANOV, E.S.; BELOV, A.M.

Determination of flowing-well transfer functions. (zv. vya.
ucheb. zav.; nef't' i gaz b no.8.91-96 '63. (MIRA 17-6)

i. Moskovskiy institut nef'tekhimicheskoy i gazovoy promyshlennosti
imeni akademika Gubkina.

BELOV, A.N.

Three awards from the All-Union Agricultural Exhibition. Nauka i
pered. op. v sel'khoz. 7 no.5:62-64 My '57. (MLRA 10:6)

1. Deputat Verkhovnogo Soveta SSSR. 2. Predsedatel' kolkhosa "Krasnyy
Putiovets".

(Collective farms)

BELOV, A.N.

Shortening the time required to build industrial buildings and
apartment houses by improving planning. Trudy MIEI no.15:23-
28 '61. (MIRA 14:12)

1. Glavnyy inzh. Chelyabinskogo Promstoyproyektta.
(Construction industry)

BELOV, A.N.

Sea-going vessel made of reinforced concrete. Biul.tekh.-ekon.-
inform. no.2:72-73 '62. (MIRA 15:3)
(Ships, Concrete)

AGRANONIK, Ye.Z., kand.tekhn.nauk; BELOV, A.N., dotsent; GLADKOV, A.M., inzh.; GLUSKIN, S.A., inzh.; IVANOV, L.V., dotsent, kand.tekhn.nauk; LIPKIN, Ye.V., kand.tekhn.nauk; NIKIFOROV, G.N., dotsent, kand.tekhn.nauk; PESNINSON, I.B., inzh.; PRIGER, Ye.A., dotsent, kand.tekhn.nauk; PYATOV, Ya.N., inzh.; ROKHCHIN, Ye.Z., inzh.; FEDOROV, N.F., prof., doktor tekhn.nauk; SHVARTS, M.B., inzh.; SHIGORIN, G.G., dotsent, kand.tekhn.nauk; SHIFRIN, S.M., prof., doktor tekhn.nauk; POPRUGIN, I.V., inzh., retsenzent; KATS, K.F., inzh., retsenzent; ROTENBERG, A.S., red.isd-va; VORONETSKAYA, L.V., tekhn.red.

[Manual of water-supply engineering and sewerage] Spravochnik po vodosnabzheniiu i kanalizatsii. Pod red. N.F.Fedorova. Leningrad, Gos.isd-vo lit-ry po stroit., arkhitekt. i stroit.materialam, 1959. 410 p. (MIRA 13:3)

1. Moscow. Gosudarstvennyy proyektnyy institut Vodokanalproyekt. Leningradskoye otdeleniye.
(Water-supply engineering) (Sewerage)

AGRONIK, Ye.Z., kand.tekhn.nauk; BELOV, A.N., dotsent; GLADKOV, A.M.,
 inzh.; GLUSKIN, S.A., inzh.; IVANOV, L.V., dotsent, kand.tekhn.
 nauk; LIFKIN, Ye.V., kand.tekhn.nauk; NIKIFOROV, G.N., dotsent,
 kand.tekhn.nauk; PASENISON, I.B., inzh.; PRIGER, Ye.A., dotsent,
 kand.tekhn.nauk; PYATOV, Ya.N., inzh.; ROKHCHIN, Ye.Z., inzh.;
 FEDOROV, N.F., prof., doktor tekhn.nauk; SHVARTS, R.B., inzh.;
 SHIGORIN, G.G., dotsent, kand.tekhn.nauk; SHIFRIN, S.M., prof.,
 doktor tekhn.nauk; ROTENBERG, A.S., red.izd-va; VORONETSKAYA,
 L.V., tekhn.red.

[Water-supply and sewerage manual] Spravochnik po vodosnabzheniu
 i kanalizatsii. Pod red. N.F.Fedorova. Izd.2., ispr. i dop.
 Leningrad, Gos.izd-vo lit-ry po stroit., arkhitekt. i stroit.materialam,
 1960. 420 p. (MIRA 13:12)

1: Moscow. Vodokanalproyekt. Leningradskoye otdeleniye.
 (Water-supply engineering) (Sewerage)

KASTAL'SKIY, Aleksandr Aleksandrovich, doktor tekhn. nauk, prof.;
MINTS, Daniil Maksimovich, doktor tekhn. nauk, prof. Prinsipali
uchastiye: MIKHAYLOV, V.A., kand. tekhn. nauk; NOVAKOVSKIY,
N.S.; ABRAMOV, N.N., doktor tekhn. nauk, prof., retsenzent;
NIKIFOROV, G.N., kand. tekhn. nauk, dots., retsenzent; PREGER,
Ye.A., retsenzent; BULYGIN, A.K., retsenzent; LIPKIN, Ye.V.,
retsenzent; VOZNAYA, N.F., kand. khim. nauk, retsenzent;
BELOV, A.N., dots., retsenzent; AGRANONIK, Ye.Z., kand. tekhn.
nauk, retsenzent; NOVIKOV, P.V., inzh., retsenzent; SHVARTS,
R.B., inzh., retsenzent; KONYUSHKOV, A.M., kand. tekhn. nauk,
nauchnyy red.; NIKOLAYEVA, T.D., red. izd-va; GOROKHOVA, S.S.,
tekhn. red.

[Water treatments for drinking and for industrial uses] Podgo-
tovka vody dlia pit'evogo i promyshlennogo vodosnabzheniia.
Moskva, Gos. izd-vo "Vysshaya shkola," 1962. 557 p.

(MIRA 16:1)

1. Kafedra vodosnabzheniya Leningradskogo inzhenerno-
stroitel'nogo instituta (for Nikiforov, Preger, Bulygin,
Lipkin, Voznaya, Belov, Agranonik).

(Water--Purification)

BELOV, A. (N.)		PRELIMINARY AND PROVISIONAL	
Thermal treatment of cylinders made from slightly deformed steel. A. Belov. <i>Novosti Tekhniki</i> 1936, No. 1, 17-20. -- The most advantageous steel contains C 1.10, 2.17, Mn 0.33, Cr 11.87-12.80 and W 0.43%, gives the least deformation in tempering in the usual thermal treatment, and has the highest resistance to wear. This steel should be heated in a BaCl₂ soln. with admixt. of 5% ferronickel to prevent a decarbonization action at a temp. of 975° and aged in an oil bath at a temp. of 150° for 20 hrs.		A. A. Piskunov	
ASME S.E.A. METALLURGICAL LITERATURE CLASSIFICATION			

BELOV, A.N.

Program temperature regulators. [Izd.] Sekts. prib. tepl. kontr.
LONITOPRIBOR no.1:63-69 '53. (MLRA 8:7)
(Automatic control) (Temperature)

PHASE I BOOK EXPLOITATION 565

~~Belov, A.N.~~, Shatov, S.G., Khartsiyev, N.A., Grab, I.I., and
Cherchik, I.A.

Vosstanovleniye detaley mashin termitnoy naplavykoy; iz opyta avto-remontnogo zavoda (Rehabilitation of Machine Parts by Thermit Resurfacing; Practice of an Automobile Repair Plant) Leningrad, 1956. 15 p. (Series: Leningradskiy dom nauchno-tekhnicheskoy propagandy. Informatsionno-tekhnicheskoy listok, no. 15. Svarka i payka metallov) 6,000 copies printed.

Sponsoring Agencies: Leningradskiy dom nauchno-tekhnicheskoy propagandy, and Vsesoyuznoye obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy.

Ed.: Ryzhik, Z.M., Engineer; Tech. Ed.: Freger, D.P.

PURPOSE: This pamphlet is intended for welding personnel employing thermit processes.

Card 1/2

Rehabilitation of Machine Parts (Cont.)

565

COVERAGE: The pamphlet presents a brief description of the thermit process adapted to resurfacing of worn out machine parts. No personalities are mentioned. There are no references.

TABLE OF
CONTENTS:

Accessories for Thermit Deposition	1
Rehabilitation of the Driving Wheel of a Caterpillar Tractor	3
Rehabilitation of the ZIS-150 Automobile Reverse Gear	4
Pouring Processes	6
Chemical Composition, Mechanical Properties of the Layer Deposited on the Gear	8
Economic Effect	9
Appendixes	11
Calculating thermit mixture	12
Required quantity of ferroalloys	16

AVAILABLE: Library of Congress

Card 2/2

JG/ad
9-10-58

BELOV, A.N.; DEMENT'YEVA, M.I.; NEMTSOV, N.Yu.; KHAMOVA, S.A.

Automatic apparatus for adsorption analysis of hydro-
carbon gases. [Trudy] IO NPO Priborprom no.4:168-180
'59. (MIRA 13:2)
(Hydrocarbons--Analysis)

BELOV, A.N.

Possibility of a statistical study of the mineral sequence in
igneous rocks. Dokl. AN SSSR 151 no.6:1416-1419 Ag '63.
(MIRA 16:10)
1. Institut geologii AN TadzhSSR. Predstavleno akademikom
D.S.Korzhinskim.

BELOV, A.N.

Morphology, internal structure, and mechanism of the formation
of Babayob Massif. Trudy Inst. geol. AN Tadzh. SSR 8:159-181
1964. (MIRA 17:11)

BELOV, A.N.

Method of granulometric analysis in igneous rocks. Izv.
AN SSSR. Ser. geol. 30 no. 10:140-143 10 '65. (MIRA 18:12)

1. Institut geologii Tadzhikskoy SSR, g. Dushanbe. Submitted
June 9, 1964.

NIKOLIN, A.V.; BELOV, A.P., kapitan-nastavnik; VARLAMOV, I.S., kapitan-nastavnik; KOSMACHEV, I.K., kapitan-nastavnik; SARATOV, V.F., kapitan-nastavnik; SEMONIN, M.I., kapitan-nastavnik; BEKMAN, A.A., kapitan; DRUZHININ, A.V., kapitan; IVANINA, B.F., kapitan; POLE-
TAIEV, L.A., kapitan; VESHCHILOV, K.A.; VYKHODTSEV, P.K.; SMOLDY-
REV, A.Ye.; VERESHCHAGIN, Ya.A.; SUTYRIN, M.A.; SAVOSTIN, M.D.;
FILIYASOV, K.A.; GOLOVUSHKIN, M.P.; IVANOV, A.I.; FILYASOV, K.A.,
otv.za vypusk; ALEKSEYEV, V.I., red.isd-va; YERMAKOVA, T.T.,
tekh.n.red.

[Rules of navigation on R.S.F.S.R. inland waterways] Pravila
plavaniia po vnutrennim vodnym putiam RSFSR. Vvedeny v deistvie
s 1 marta 1959 g. prikazom ministra rechnogo flota no.28 ot 11
fevralia 1959 g. Moskva, Isd-vo "Rechnoi transport," 1959. 124 p.
(MIRA 13:6)

1. Russia (1917- R.S.F.S.R.) Ministerstvo rechnogo flota. 2. Glav-
nyy revizor po bezopasnosti sudokhodstva (for Nikolin). 3. Nachal'-
niki besseyzovnykh sudokhodnykh inspektsey (for Veshchilov, Vykhodtsev,
Smoldyrev). 4. Rabotniki Upravleniya glavnogo revizora po bezopas-
nosti sudokhodstva (for Vereshchagin, Sutyryn, Savostin, Filyasov).
5. Glavnoye upravleniye vodnykh putey i gidrotekhnicheskikh sooru-
zheniy (for Golovushkin).

(Inland navigation--Laws and regulations)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204400038-6

BELOW, A.P.

Organization of multilegal expertise in the German Democratic
Republic. Sud.-red. zapisk. 6 no.433-40 O-D'63
(MIRA 16:12)

BELOV, A.P.

Determination of the types of haptoglobin in human fluid blood and the distribution of types of haptoglobin among a part of the inhabitants of the Soviet Union. Probl. gemat. i perel. krovi 9 no.7: 43-46 J1 '64. (MIRA 18:3)

BELOV, A.P.; BUDYAKOV, O.S.

Use of haptoglobin types in forensic medical investigations;
a survey of the foreign literature. Sud.-med.ekspert. 6
no.1:28-29 Ja-Mar '63. (MIRA 16:2)
(CHEMISTRY, FORENSIC) (HAPTOGLOBIN)

MOISEYEV, I.I.; BELOV, A.P.; SYRKIN, Ya.K.

Interaction between propylene and palladium chloride in acetic acid solutions. Izv.AN SSSR.Ser.khim. no.8:1527-1528 Ag '63.
(MIRA 16:9)

1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova
AN SSSR i Institut tonkoy khimicheskoy tekhnologii im. Lomonosova.
(Propene) (Palladium chloride)

BELOV, A.P.; VARGAFTIK, M.N.; MOISEYEV, I.I.

Bromination of π -allyl complexes of palladium. Izv. AN
SSSR. Ser. khim. no.8:1551-1552 Ag '64. (MIRA 17.9)

1. Institut obshchey i neorganicheskoy khimii im. Kurnakova
AN SSSR i Institut tonkoy khimicheskoy tekhnologii im.
Lomonosova.

MOISEYEV, I.I.; BELOV, A.P.; PEK, G.Yu.

$\overline{\Pi}$ -Hexenyl complex from propylene and palladium chloride.
Zhur. neorg. khim. 10 no.2:336-343 F '65. (MIRA 18:11)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova
AN SSSR i Institut tonkoy khimicheskoy tekhnologii imeni
Lomonosova. Submitted July 12, 1964.

BELOV, A.P.; PER, G.Yu.; MOISEYEV, I.I.

Oxidation of propylene by palladium chloride in acetic acid.
Izv. AN SSSR, Ser. Khim. no. 12:2202-2204, 1965.

(NOR 18312)

2. Moskovskiy institut tsekov khimicheskoy tekhn. Dep. 1. In.
Lomonosova 3. Institut obshchey i neorganicheskoy khim. 1. St.
N.S. Kurnakova AN SSSR. Submitted April 12, 1965.

1957, 1958; MASHKOV, I.I.

Examination of 1-bromo-2-methylcyclohexane (1-bromocyclohexane) .
Izv. AN SSSR. Ser. Khim. no. 113-114, 1957.

1. Makhovskiy Institut tekhn. khimichesk. tekhn. 113-114.
M. V. Lomonosova S. in Khim. tekhn. tekhn. 113-114.
Dr. N. N. Ponomarev AN SSSR. Submitted 1957, 1958.

27C
L 24212-65 SWT(m)/EPF(c)/EPF(n)-2/EPR Pr-4/Ps-4/Pu-4 DM

ACCESSION NR: AP5001265

S/0089/64/017/006/0439/0448

AUTHOR: Polushkin, K. K.; Yemel'yanov, I. Ya.; Delens, P. A.; Zvonov, N. V.;
Aleksenko, Yu. I.; Grozdov, I. I.; Kuznetsov, S. P.; Sirotkin, A. P.; Tokarev,
Yu. I.; Lavrovskiy, K. P.; Brodskiy, A. M.; Belov, A. R.; Borisayuk, Ye. V.;
Gryazev, V. M.; Tetyukov, V. D.; Popov, D. N.; Koryakin, Yu. I.; Filippov,
A. G.; Petrochuk, K. V.; Khoroshavin, V. D.; Savinov, N. P.; Meshcharyakov,
M. N.; Pushkarev, V. P.; Suroyagin, V. A.; Gavrilov, P. A.; Podlazov, I. N.;
Rogozhkin, I. N.

TITLE: Atomic electric power installation "Arbus"¹⁴ with organic coolant and moderator

SOURCE: Atomnaya energiya, v. 17, no. 6, 1964, 439-448

TOPIC TAGS: small nuclear reactor, organic coolant, organic moderator, reactor economy, nuclear reactor

ABSTRACT: The paper is a summary of the SSSR # 307 report at the Third Inter-

Card 1/2

L 24212-65

ACCESSION NR: AP5001265

national Conference on Peaceful Uses of Atomic Energy, 1964. It describes an installation of a reactor in which organic liquid serves as the coolant, and as the moderator. The low-power reactors of about 5 Mw are expected to be economical in the remote regions where the usual energy sources are not available. A regeneration system is described for the coolant which removes the products of radio-lysis. Orig. art. has: 7 figures

ASSOCIATION: None

SUBMITTED: 00

NR REF SOV: 000

ENCL: 00

OTHER: 000

SUB CODE: NP

Card 2/2

86793

S/142/60/000/003/008/017
E192/E482

9.1923

AUTHORS: Tereshin, O.N. and Belov, A.S.
TITLE: Decoupling of Slot-Type Antennas by Means of an
Impedance Structure Situated in the Plane of the Slots
PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika,
1960, No.3, pp.359-365

TEXT: In practice, it is often necessary to secure a sufficient decoupling between the receiving and the transmitting antennas of the slot-type which are situated in the same plane in the vicinity of each other. It is necessary for the decoupling device to be situated in the plane of the antennas. A method of producing the decoupling by means of a plane impedance structure (surface) situated between the antennas is analysed. A uniform infinite (in the direction of x) impedance surface situated in the plane XOY is considered. The antennas are assumed to be uniform in the direction of x . If the distance between the thresholds of the individual grooves of the impedance structure are much smaller than the wavelength it can be assumed that

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E192/E482

Decoupling of Slot-Type Antennas by Means of an Impedance
Structure Situated in the Plane of the Slots

$$\left. \frac{E_x}{H_y} \right|_{z=0} = 0 \quad (1)$$

The characteristic surface impedance is given by

$$Z(y) = \left. \frac{E_y}{H_x} \right|_{z=0} \quad (2)$$

This can also be expressed by (Ref.1):

$$\text{Eq. (3)} \quad Z(y) = \frac{i}{\omega \epsilon} \frac{\int_{-\infty}^{\infty} \frac{x \xi(x) - F_1^2(x) - F_2^2(x)}{x} e^{-ixy} dx}{\int_{-\infty}^{\infty} \frac{x \xi(x) - F_1^2(x) + F_2^2(x)}{x} e^{-ixy} dx} \quad (3)$$

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S/142/60/000/003/002/017
E192/E482Decoupling of Slot-Type Antennas by Means of an Impedance
Structure Situated in the Plane of the Slots

where $Z(y)$ is the surface impedance, ω is the angular frequency, ϵ is the permittivity of the medium above the impedance surface, k is the wave number in the space above the impedance surface, $\tilde{E}(\kappa)$ is the directional pattern function of the system and $\gamma = \sqrt{\kappa^2 - k^2}$. The functions F^3 of Eq.(3) represent the spectral densities and are defined by Eq.(4), where the symbols J represent the components of the volume density of electric and magnetic currents, z' and y' are the coordinates of the primary sources, while z and y are the coordinates of the observation point. At the points where the external currents are absent, the expression for the surface impedance can be written in a simplified form as given by Eq.(5). This expression can be normalized by introducing $\kappa = \kappa^* k$. In this case the normalized impedance is expressed by Eq.(6). From Eq.(5) or (6) it is seen that the decoupling can be achieved by reducing the denominator in these equations. If the denominator is denoted by a function $\phi(y)$, the function $\tilde{E}(\kappa)$ can be expressed by Eq.(10). Now the

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final expression for the surface impedance is

Eq.
(11)

$$Z(y) = -\frac{1}{2} \frac{\int_{-\infty}^{\infty} \varphi(t) \frac{H_1^{(1)}(t-y)}{t-y} dt}{\varphi(y)} \quad (11)$$

This formula gives the necessary impedance distribution for securing the desired field attenuation function $\varphi(y)$. It is assumed that $\varphi(y)$ is in the form of Eq.(14) where $f(y)$ is an analytic function free from singularities in the upper semi-plane. By contour integration of Eq.(11), it is found that the surface impedance is given by Eq.(15). From this it is seen that the greater the attenuation of the field the greater the decrease in the impedance. It is desirable that the surface impedance should

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S/142/60/000/003/008/017

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Decoupling of Slot-Type Antennas by Means of an Impedance
Structure Situated in the Plane of the Slots

be purely reactive since this can be simply achieved by means of a simple periodic (corrugated) structure. The theory was verified by some experiments where the following parameters were chosen for Eq.(15): $f(y) = \text{const}$ and $a = 0$. This corresponds to a purely resistive surface impedance which can be simply realized in practice. The experiments were done at the wavelength of 3.2 cm and the system consisted of a number of grooves filled with different dielectrics and absorption materials. The structure had a width of 2.5 mm and length of 250 mm. The index n was taken as being equal to 3 and up to 6 grooves were used. It was found that with 3 grooves, the attenuation was 33 db, with 6 grooves the attenuation increased to 44 db (calculated value being 80 db). If the above corrugated structure was replaced by a metal sheet the decoupling was about 20 db. There are 4 figures and 3 Soviet references.

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S/142/60/000/003/008/017
E192/E482

Decoupling of Slot-Type Antennas by Means of an Impedance
Structure Situated in the Plane of the Slots

ASSOCIATION: Kafedra antennykh ustroystv Moskovskogo ordena
Lenina energeticheskogo instituta
(Department of Antenna Devices of Moscow "Order-of-
Lenin" Power Engineering Institute)

SUBMITTED: June 1, 1959 (initially)
July 20, 1959 (after revision)

Card 6/6

BELOV, A.V., inzh; KOVALEV, N.M., inzh; YELISEYEV, Ye.V., inzh.

New tool for machining the grooves under the roots of turbine blades. Energomashinostroenie 4 no.10:29-30 0 '58.

(Metal-cutting tools) (Turbines) (MIRA 11:11)

S/114/62/000/002/003/004
E194/E955

AUTHORS: Belov, A.V., Engineer, Semenov, A.S., Turner
TITLE: Features of machining fir-tree surfaces on lathes
PERIODICAL: Energomashinostroyeniye, no.2, 1962, 37-38
TEXT: The Nevskiy mashinostroitel'nyy zavod im.V.I. Lenina (Neva Works im. V.I.Lenin) makes forged drums for gas-turbine rotors and axial compressors 4-5 metres long, weighing about six tons and also various blanks in the form of rings for blades and the like. Most of these parts are made of high-alloy stainless and heat-resisting steels grade 34XH3M (34KhN3M), 2X13 (2Kh13), 3X1405 (EI405) and 3X415 (EI415). High accuracy and good surface finish is required. The profiles are cut with toothed high-speed tools of high accuracy and good surface finish. Two tools are normally used, one for roughing, the other for finishing. For the shafts of axial compressors, the finishing tool has teeth on both sides and for rings it has teeth on one. Rotors of axial compressors which are relatively long and thin may vibrate during machining and to avoid this the lathe speed should be reduced as

Card 1/2

S/123/59/000/008/022/043
A004/A002

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1959, No. 8, p. 75,
29129

AUTHOR: Belov, A. V.

TITLE: High-Efficiency Metal Working by Cutting¹⁶

PERIODICAL: Tr. Nevsk. Mashinostroitel. z-da, 1958, No. 3, pp. 58-75

TEXT: The author describes highly productive methods of machining components, used at the Nevskiy mashinostroitel'nyy zavod (Nevskiy Mechanical Engineering Plant). Formerly, the machining of stepped shafts made of the steel grades 45, 40X (40Kh), 40H (40N), 3H415 (EI415) and 3H405 (EI405) was effected at low cutting rates because the shafts could not be properly clamped on the machine tools. The author presents a new method of fastening the shafts by clamping their left end in a special 4-jawed chuck with spherical jaws, while the right end is fitted in a roller bearing, fastened in a steady. This method of clamping the shafts made it possible to machine them at high cutting rates, using T15K6 and T30K4 carbide cutting tools (during semi-finish stepped turning of the partition part the feed was 0.6-0.8 mm/rev [Translator's note: the word

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High-Efficiency Metal Woring by Cutting

S/123/59/000/008/022/043
A004/A002

"plavayushchiye" is being used in the abstract, an obvious misprint instead of the word "podacha" = "feed"] cutting depth = 8-10; during finish machining the cutting feed was 250-400 m/min, the feed = 0.1-0.2 mm/rev and the cutting depth = 0.5-0.75 mm). The authors present new designs of aperture-forming cutting tools (laminated countersink reamers, broaches with stepped grinding of the partition part, floating boring bits), which made it possible to machine the apertures in turbine parts at increased cutting rates under consideration of increased demands as to accuracy (2nd - 3rd class) and surface finish ($\nabla\nabla 6$ - $\nabla\nabla 8$). The author describes a new grinding geometry of carbide threading tools with fitted adjustable chip curler. The use of such tools increased their durability, reduced the number of cutting operations (3-4 instead of 8-10) and made it possible to cut threads at high cutting speeds (60-70 m/min). A description is given of surface planing with the aid of wide cutting tools tipped with the BK8 (VK8) grade carbide. The designs of end milling heads used for high-speed plane face milling and the cutting conditions are given. There are 17 figures and 5 tables.

B. I. L.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

VOLKOGON, G.M.; BELOV, A.V.

"Induction furnaces for metal and alloy smelting" by S.A. Farbman,
I.F. Kolesnev. Reviewed by G.M. Volkogon, A.V. Belev. TSvet. met.
31 no.9:78-79 S '58. (MIRA 11:9)
(Nonferrous metals--Electrometallurgy) (Induction heating)

S/121/62/000/006/002/002
D040/D113

AUTHORS: Amosov, I.S., Belov, A.V., Zlotnitskiy, B.V., and Popandepulo, A.N.

TITLE: The cutting properties of cobalt-vanadium high-tungsten high-speed steel

PERIODICAL: Stanki i instrument, ³³no. 8, 1962, 33-35

TEXT: P 18F4K6M (R18F4K6M) steel, which already existed in 1958, contains 1.25-1.40% C, 4.4-5.0% Cr, 15.5-17% W, 3.2-3.8% V, 7.5-8.5% Co and 1.2-1.5% Mo. The results are given of cutting tests conducted at the Nevskiy mashinostroitel'nyy zavod im. V.I.Lenina (Neva Machine-Building Plant im. V.I.Lenin), the Leningradskiy metallicheskiy zavod im. XXII s'yezda KPSS (Leningrad Metal Plant im. XXII s'yezda KPSS) and the Leningradskiy politekhnicheskiy institut im. M.I.Kalinina (Leningrad Polytechnic Institute im. M.I.Kalinin). Cutting tools made of R18F4K6M proved to be 2-6 times more durable than tools made of similar standard steels, and can be used for milling austenitic steel. The cutting speed range is 20-30 m/min, and the cutting properties depend to some extent

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S/121/62/000/008/002/002
D040/D113

The cutting properties of cobalt-vanadium

on the heat treatment procedure, recommendations for which are given. This steel is forgeable and weldable, but cannot be ground so easily as P 18 (R18) steel. Cutting blades and tips made of R18P4KM can be attached to mills and shanks by electric welding with preheating in a $BaCl_2$ bath, quenching and multiple tempering. There are 3 figures and 6 tables.

Card 2/2

BELOV, A.V.; MASLYANSKIY, L.I.

Water separators for gas drain ducts. Ugol' 37 no.2:49-50
F '62. (MIRA 15:2)

(Mine gas)
(Water drainage)

KOPYTOV, A.V.; BELOV, A.V.

New large objectives of the development of Bashkir oil pools. Geol.
nefti i gaza 4 no.10:18-23 O '60. (MIRA 13:9)

1. Ufimskiy neftyanoy nauchno-issledovatel'skiy institut.
(Bashkiria—Petroleum geology)

BELOV, A.V.

Experimental derivation of the desorption isotherm of cement rock. Trudy
Len.politekh.inst. no.4:52-54 '47. (MLRA 6:8)
(Cement)

BELOV, A. V.

25654

Graficheskii Sposob Opredeleniya Temperaturnykh Napryazheniy v Betonnykh Stenakh Tverd.
Leningr. Politekh. In-ta Im. Kalinina, 1968, No. 5. s. 19-26 - Bibliogr: 5 nazv.

SO: 131013 No. 34

BELOV, A.V., professor, doktor tekhnicheskikh nauk.

Thermal stress in a concrete wall during the gradual cooling of its
surfaces. Izv.VNIIG no.39:79-88 '49. (MLRA 10:3)
(Concrete--Testing)

EMLOV, A.V., professor, doktor tekhnicheskikh nauk.

Experimental determination of the coefficient of moisture diffusion
in cement mortars while drying. Izv.VNIIG no.43:126-132 '50.
(Cement) (MLRA 10:2)

BELOV, A.V., professor, doktor tekhnicheskikh nauk.

Effect of reinforcements on the magnitude of settling stresses
in concrete. Izv. VNIIG no.45:51-66 '51. (MLRA 10:3)
(Reinforced concrete)

BELOV, A.V., professor, doktor tekhnicheskikh nauk.

Temperature stresses in a concrete slab subjected to harmonic
temperature oscillations. Izv. VNIIG no. 45:67-77 '51. (MLRA 10:3)
(Concrete Testing)

9. Monthly List of Russian Accessions, Library of Congress, January, 1953. Unclassified.

BELOV, A.V., prof., doktor tekhn. nauk

Determining temperature stresses in a concrete plate with consideration of exothermic conditions and thermal insulation at a varying temperature of the surrounding medium. Izv. VNIIG 47:103-119 '52.
(MIRA 12:6)

(Concrete--Thermal properties) (Elastic plates and shells)

1. BELOV, A.V., Prof.
2. USSR (600)
4. Concrete Construction
7. Temperature conditions of the surrounding medium providing for the given stresses on the surface of a concrete slab, Gidr.stroi. 22 no. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

Реклама

BELOV, A.V.; IMLYANOV, V.A., inzh.,retsenzent; VOSKRSENSKIY, N.N., inzh.,
red.; MATVEYEVA, Ye.N., tekhn.red.

[Painting metal and wood surfaces in machine manufacture; the
minimum technical requirements] Okraska metallicheskih i derevian-
nykh poverkhnostei v mashinostroenii; tekhnicheskii minimum.
Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1954.
114 p. (MIRA 11:2)

(Machinery--Painting)

BELOV, A.V.

[Painting metal and wood surfaces in machine construction] Otkraska
metallicheskikh i dereviannykh poverkhnostei v mashinostroenii.
Moskva, Mashgiz, 1954. 116 p. (MLRA 8:2D)

BELOV, A.V., prof., doktor tekhn.nauk

Thermal stresses in a concrete prism of a rectangular cross
section. Izv.VNIIG 51:3-22 '5. (MIRA 12:5)
(Concrete) (Thermodynamics)

LOGINOV, F.G.; BASNICH, A.Z.; BULOV, A.V.; VOZNESENSKIY, A.N.; GLEBOV, P.D.;
KACHANOVSKIY, B.D.; KRAVTSOV, V.I.; LEVI, I.I.; MOROZOV, A.A.; MOSOV,
R.P.; OKOROKOV, S.D.; PROSKURYAKOV, B.V.; STAROSTIN, S.M.; URAZOV, A.A.;
CHERTOUSOV, M.D.; CHUGAYEV, R.R.; SHCHAVILEV, D.S.; YAGN, Yu.I.

V.S.Baumgart.; ebituary. Gidr.stroi. 25 no.5:58 Je '56. (MLRA 9:9)
(Baumgart, Vladimir Sergeevich, d.-1956)

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1. Institut geologii i razrabotki goryuchikh iskopayemykh.

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137-1958-1-97

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 16 (USSR)

AUTHOR: Belov, A. Ye.

TITLE: Every Tenth Worker an Efficiency Expert (Kazhdyy desyatyy rabochiy - ratsionalizator)

PERIODICAL: Kolyma, 1956, Nr 4, pp 42-43

ABSTRACT: A number of innovations put forth to improve mining equipment, make new devices, and improve production processes at the "Verkhniy At-Uryakh" placer are described.

A. Sh.

1. Mining industry-Inventions--USSR 2. Mines--Production
--Efficiency

Card 1/1

Belov, A. Ye.

137-1958-1-120

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 18 (USSR)

AUTHOR: Belov, A. Ye.

TITLE: Operating Experiences With the MPD-2 Washer (Opyt raboty promyvochnogo pribora MPD-2)

PERIODICAL: Kolyma, 1956, Nr 10, pp 18-19

ABSTRACT: The high engineering and economic indices of a crew at the "Verkhniy At-Uryakh" placer, under comrades Kopchekchi and Shalashov, and using an MPD-2 washer, are noted.

A. Sh.

1. Crew work... 2. Cross-Processing--Equipment

Card 1/1

Belov, A. Ye.

137-1958-1-121

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 18 (USSR)

AUTHOR: Belov, A. Ye.

TITLE: Experiences in the Use of Hydraulic Elevators on MPD-2 and MPD-6 Metal Washers (Opyt primeneniya gidroelevatorov na metallicheskih promyvochnykh priborakh MPD-2 i MPD-6)

PERIODICAL: Kolyma, 1956, Nr 12, pp 26-28

ABSTRACT: The desirability of using hydraulic elevators, which combine the advantages of reliability in operation, small dimensions and ease of assembly and dis-assembly, has been shown in practice. The only repair cost incurred with hydraulic elevators is the replacement of the orifice and lining once per season. The service life of a hydraulic elevator is increased by using 10-mm thick chilled cast iron for the lining. Thick-walled 200 mm tubing has to be used both for the water and the pulp lines. In assembling the water supply line for a hydraulic elevator, a stub pipe for a pressure gauge must be provided. Washers using hydraulic elevators should be equipped with the more economical 6NDV pump instead of the 8NDV.

Card 1/1

A. Sh.

1. Ore washers--Equipment 2. Ores--Processing--Equipment

KRAVCHENKO, G.I., kand. tekhn. nauk; BELOV, A.Ye., inzh.

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Avt. ~~transp.~~ 41 no.11:30-33 N '63. (MIRA 16:12)